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(54) DETERMINATION OF AMOUNT OF
ALLERGEN IN ROOM DUST

(57) Abstract:

PURPOSE: To easily and quickly determine the amount of allergen by using a proteinase activity as an index.

CONSTITUTION: About 1g of room dust containing proteinase is extracted with about 20ml of a phosphoric acid buffer solution to obtain an extract. The

extracted liquid is added with tert.-butoxycarbonyl-L-phenylalanyl-seryl-L- arginine-4-methyl-coumaryl-7-amide (Boc-phe-ser-arg-MCA) and hydrolyzed at about 37°C for about 30min to effect the color development. The proteinase activity is determined by measuring the fluorescent intensity of the color-developed liquid at an excitation wavelength of about 380nm and a determination wavelength of about 460nm. The amount of allergen in room dust can be obtained by using the determination result as an index.

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